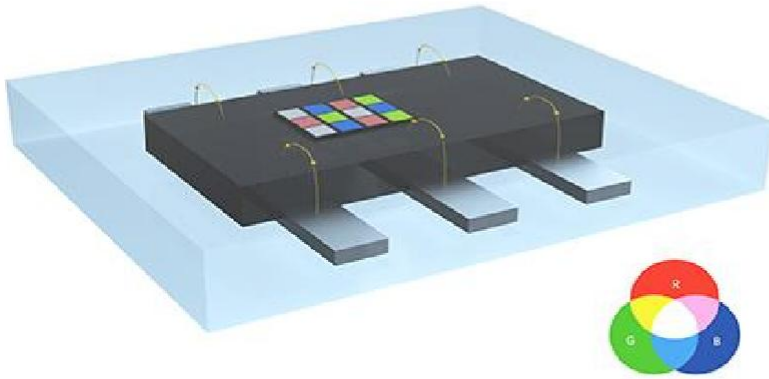


颜色传感器芯片 Color sensor chip

颜色传感器产品通过高性能 RGB（红、绿、蓝）感光器，感知环境光强度及分辨环境光色温。RGB 感光器像素的高灵敏度及宽动态范围保证了精确的颜色测量、测定以及区分。同时，传感器内置的红外光滤波系统将近红外光的干扰降至最低。传周可以根据客户的具体需求，提供各种规格的颜色传感器芯片。

The color sensor contains red, green, blue and other discrete photoreceptors. It can sense the light intensity under different conditions through a variety of cover materials. Color sensors are widely used in RGB backlight control, solid-state lighting, LED color sampler, fluorescent lamp color temperature detection and so on. TimeVision can provide various specifications of color sensor chips according to the specific needs of customers.



红外截止薄膜保证真色彩传感
Color sensing with IR-blocking filter
内置接近传感功能
Integrated with proximity sensing
内置电源管理功能
Power management with sleep/wait mode
高速 I2C 接口
Compatible with fast I2C mode interface

特
征
Features

RGB LED背光控制
RGB LED backlight control
环境光色温传感
Ambient light color temperature sensing
机械开关替代
Mechanical switch replacement
工业流程控制
Industrial process control

应
用
Application

主要参数 Parameters

参数 Parameters	规格 Specification
电源电压	2.7~3.6 V
输出负载电流	≤20 mA
发射 LED 驱动电流	3-5 mA
红/绿/蓝 响应峰值波长	615 nm/525 nm/465 nm
工作温度	-30~70 °C
ESD	2 kV
I2C 时钟频率	400 kHz